

CALFED Bay-Delta Program

Water Use Efficiency Program Program Plan Year 7 (State FY 2006-2007; Federal FY 2007)

Implementing Agencies:
Department of Water Resources
State Water Resources Control Board
United States Bureau of Reclamation
Natural Resources Conservation Service

May 19, 2006

CALFED Program Logo

Introduction

This *Water Use Efficiency(WUE)* Program Plan identifies the CALFED Program activities scheduled to be completed during State Fiscal Year (FY) 2006-07 (July 2006 through June 2007) and Federal FY 2007 (October 1, 2006 through September 30, 2007). This plan also describes the accomplishments made during the previous Fiscal Year State FY 2005-06 and Federal FY 2006.

Readers familiar with past CALFED Program Plans will notice a difference between this plan and those prepared during previous years. The major variations are that this plan focuses on activities that will be undertaken in the upcoming year. Further, this plan omits some sections found in previous plans such as “Performance Measures”, “Integration of Science, Environmental Justice and Tribal Relations” and “Public Input and Outreach.” However, a comprehensive discussion of the planned activities for the upcoming year can be found in the “Activity” section of this plan.

Priorities

As in previous WUE Program plans, CALFED agencies will continue to support agricultural and urban water use efficiency program implementation, recycled water, desalination, and environmental quality.

In addition, DWR staff is currently evaluating the performance of urban and agricultural grants awarded in the past. This effort includes identifying and developing methods to better quantify future performance of water use efficiency programs. To assist in the evaluation, quantifiable objectives, performance measures, and sound scientific methodologies will be incorporated into future proposal solicitation packages (PSP) for water use efficiency grants.

Accomplishments

The accomplishments reported include activities that are projected to be completed by December 2006. In FY 2006, California Bay-Delta Authority (CBDA) and the California Bay-Delta Program implementing agencies accomplished the following activities: science, - agricultural and urban technical assistance and grants, water desalination and recycling technical assistance and grants. Additionally, CBDA and agencies identified delays in FY 2006 activities.

Urban Conservation Projects

Grants

Proposal Solicitation Packages were issued in 2004 for DWR’s Proposition 50 Chapter 7; agricultural and urban water use efficiency funding. Urban water conservation projects were eligible for the 2004 WUE PSP. The PSP was released for public comment and submitted to the Bay Delta Public Advisory Committee (BDPAC) WUE Subcommittee, BDPAC, and the California Bay Delta Authority (CBDA) for endorsement. The PSP was released on November 15, 2004 and proposals were due by January 11, 2005. DWR reviewed 106 submitted proposals

and 47 projects were selected in June, 2005 for a total of \$16,895,191. Originally this PSP was scheduled for release in 2003 but was delayed due to a request to include private entities as eligible for program funding and state budget approval delays. Funding for Year 5 was re-appropriated from the previous fiscal year. Program implementation reflects a beneficiary pays approach including local cost share for implementation projects.

DWR continues to manage urban projects funded under Proposition 13. All DWR's SB 23 grant contracts with local agencies have been completed and project results are being summarized.

Lead Agency: DWR with cooperation by SWRCB, NRCS, USBR, and CBDA.

Agricultural Conservation Projects

Loans

Agricultural loans were not available in 2005-06.

Grants

Agricultural water conservation projects were eligible for funding in the 2004 WUE PSP. DWR received 62 proposals for review and selection. Funding awards were made to 28 projects in June, 2005 for a total of \$11,737,791. About \$5.15 million of agricultural grant funds were unused and will rollover to 2006-07. The 2007 PSP is planned for release in 2006-07. Program implementation reflects a beneficiary pays approach including local cost share for implementation projects.

DWR continues to manage agricultural projects funded under Proposition 13.

Lead Agency: DWR with cooperation by SWRCB, NRCS, USBR, and CBDA.

In Fiscal Year 2006, USBR's Mid-Pacific Region water conservation staff is expected to award approximately \$1.49 Million in grants through the on-going Water Conservation Field Services Program, Request for Proposals (RFP) can be accessed via the internet at <http://grants.gov> for urban and agricultural water conservation projects. In addition, USBR is expected to award approximately \$2.4 Million in grants for agriculture and urban water conservation projects under a CALFED WUE RFP.

Funding: Total funding for FY06 – approximately \$3.89 Million

Natural Resources Conservation Service (NRCS) developed and provided a report for an on-farm WUE incentive program. This report was based on 6 regional meetings that were held to gather producer's technical assistance and financial incentives needs. The report also included an evaluation of existing programs for on-farm technical and financial incentives of key agencies. Original due date was May 2003; however changes on concept delayed delivery to April 2005. A draft of this document was provided for review to members of the WUE agency team. A final is available for review by the subcommittee.

NRCS continued to implement the Environmental Quality Incentives Program (EQIP) (Category B), to provide cost share incentive payments to encourage installation of water conservation practices. Funding available in EQIP for on farm implementation is based on prior year estimates of EQIP practice cost share expenditures that complement CALFED WUE Agricultural Water Conservation goals.

Lead Agency NRCS.

Water Recycling Projects

Grants (Includes Research Grants)

SWRCB Water Recycling Loans and Grants accomplishments for FY 2005-2006 are as follows:

- a. A grant to the WaterReuse Foundation was approved in 2003 for water recycling research program. For the period July 2005 through March 2006, \$298,334 from this grant cycle was approved for 7 projects.
- b. For the period July 2005 through March 2006, approved 7 grants totaling \$515,000 for facilities planning studies for water recycling projects using Proposition 13 (2000 bond issue).
- c. For the period July 2005 thorough March 2006, approved 1 Proposition 13 (2000 bond issue) construction grant for \$640,350.
- d. In FY 2003-04 the Legislature appropriated \$42 million from Proposition 50 (2002 bond issue), Chapter 7 for local assistance for water recycling projects. A ranked list of water recycling construction grant projects that benefit the Delta was adopted by SWRCB in April 2005. Implementation of this program incorporates a state funding share of 25 percent of eligible costs up to a maximum of \$4 million. For the period July 2005 through March 2006, 16 projects were approved for \$37,663,214 in Proposition 50 grants.
- e. Using funds from Proposition 50, Chapter 8; the Integrated Regional Water Management Grant Program provides grants for integrated regional plans and implementation of a spectrum of water resources projects, including potentially water recycling. The IRWMGP is jointly administered by SWRCB and DWR's Division of Planning and Local Assistance. Guidelines were adopted in 2004. Fifty conceptual implementation grant proposals were submitted in the first of a 2-step application process in 2005. In March 2006, 26 applicants were called back to proceed to the second step with final implementation proposals, due in June 2006.

Lead Agency: SWRCB, and DWR

In Fiscal Year 2006, USBR Southern California Area Office provided financial and technical assistance for water conservation, water recycling, and desalination. A total of \$14.9 million was awarded for Title XVI projects.

Lead Agency: USBR.

Desalination Implementation (Includes Desalination Research)

Water Desalination may be considered a water supply activity rather than water use efficiency. The Water Desalination Program is managed by DWR Office of Water Use Efficiency and Transfers thus it is reported under the WUE Program Element for organizational reasons. DWR's Water Desalination Program is administered by funds from Chapter 6 of Proposition 50.

DWR developed and released to the public a Proposal Solicitation Package (PSP) for the Water Desalination Grant Program. The Water Desalination Grant Program is implementing Chapter 6 of Proposition 50 (Water Code Section 79545(a)). The objective of this grant program is to assist local public agencies with the development of local potable water supplies through brackish water and ocean water desalination. The first cycle of funding was \$25 million. The PSP was released for public comment and submitted to the BDPAC WUE Subcommittee, BDPAC, and CBDA for endorsement. Forty four proposals were received by January 18, 2005. Selection was made in May 2005. Originally this PSP was scheduled for release in 2003 but was delayed due to budget approval delays. The funding for the Year 5 was re-appropriated from previous fiscal year.

In 2005-06 DWR funded 24 different projects worth \$24.75 million. Out of the 24 selected projects 7 are research and development projects with a State share of \$6.0 million funding.

Lead Agency: DWR with cooperation from USBR, DHS and CBDA.

Technical Assistance, Assurances, Science, Oversight and Coordination

Broad spectrums of activities are associated with the technical assistance provided by the agencies. These activities include but are not limited to; publications such as Water Conservation News, brochures, scientific papers, and publication in various scientific journals. Workshops, classes, and outreach regarding landscape, industrial, commercial, institutional, urban indoor, urban infrastructure, agricultural water use efficiency including Mobile Labs, and data including weather information for irrigation scheduling. Workshops and classes often include "hands on" training. Agencies will continue to offer these services and others not listed either directly or through contractual agreements with other entities. As a result of the CALFED Refocusing Effort, Water Use Efficiency Program is presently considered as Coordinated Action.

Urban Technical Assistance

DWR partnered with the CUWCC to promote and initiate the "non-ideal" urban weather station site program. This program is designed to assist urban water

agencies with water management, runoff reduction, and best management practices (BMP) implementation.

Lead Agency: CUWCC in partnership with DWR.

DWR promoted California Friendly Landscape; DWR sponsored and participated in training and dissemination of information regarding landscape water conservation.

Provided support for BMP 5 in coordination with CUWCC. Protocols were developed for estimating the environmental benefit of BMP 5 implementation.

Assisted CUWCC with Water Smart Landscape for California, AB 2717 Landscape Task Force Findings, Recommendations, and Actions. The CUWCC published the Report in December 2005. Implementing agencies participated in the Task Force group activities. The Report recommends a number of actions to be taken by the CUWCC, DWR, and others. These recommendations if implemented will improve landscape water conservation significantly.

Lead Agency: CUWCC, DWR assisted.

Through a contract with the California Urban Water Conservation Council (CUWCC), guest accounts are created for those Reclamation Contractor's that are not signatories to the CUWCC. This contract enables all of Reclamation's urban Contractors to submit their Annual Updates on line via the CUWCC's website. This contract also provides technical assistance for the urban Best Management Practices. Reclamation is an active member of the CUWCC and participating in the Steering Committee and various other committees run by the CUWCC.

Lead Agency: USBR

Agricultural Technical Assistance

DWR provides ongoing assistance to agricultural water suppliers by providing information to implement efficient water management practices and help local agencies in their efforts to prepare Water Management Plans and bi-annual progress reports through the Agricultural Water Management Council. DWR provides assistance for agricultural water management planning and implementation.

Continue managing the 3-way agreement and partnership with USBR on tasks identified in the cooperative agreement.

Supported the Agricultural Water Management Council (AWMC) efforts in conjunction with CBDA to develop a data base containing water management plan information.

Continue to assist AWMC incorporate QO's into EWMP's, net benefit analysis, and Model Water Management Plan.

Manage Proposition 13, SB 23, and Proposition 50 grant funded projects.

Monitored two new Mobile Laboratories. Though still in their infancy, the two labs have conducted 23 pump tests and 60 irrigation system evaluations. Provided assistance to existing Mobile Laboratories to provide assistance outside their service area. The intent of these evaluations is to show agencies that do not currently have mobile laboratories, the benefits of the labs and encourage them to establish their own labs. Benefits may include energy savings, water savings, and water quality improvement.

Lead Agency: DWR.

Operated and maintained over 130 California Irrigation Management Information System (CIMIS) stations statewide and disseminate data to the public for agricultural and urban water management planning. Assisted local water agencies to install five (5) new CIMIS weather stations. Collect, process QC/QA, and disseminate CIMIS data to the public through the CIMIS web page and provide technical assistance. Provide state wide operations maintenance, calibration, and technical assistance, in resolving problems with DWR and cooperator owned CIMIS weather stations. Managed Blythe Lab activities and equipment repair and calibrations. Updated maintenance and operation files. Provided local technical assistance on the use of CIMIS and efficient irrigation scheduling. Continued outreach activities at conferences, workshops, and educating foreign visitors and scientists.

Lead Agency: DWR.

Contracted with University of California Davis to further refine ETo zone maps for California using remote sensing and spatial interpolation methods, updating daily, and to be made available to the public through the CIMIS web page. Phase I is complete. Began planning and contracting for Phase II. Administered and updated the new CIMIS web page (www.cimis.water.ca.gov) to facilitate the increased demand for data, technical information, and water management tools. Implemented new reporting methods from the CIMIS web page. Implemented new logger net polling pc's data acquisition platforms to provide more frequent CIMIS data updates.

Installed a weather station for DWR operations and climate data monitoring of the Jones Tract incident. Collected data and provided assistance for maintaining 3 weather station towers for the Salton Sea Authority investigation.

Continued submitting publications to California Agricultural Technology Institute, Water Conservation News, and scientific paper to the American Society of Civil Engineers Journal.

Published scientific paper Comparing Net Radiation Estimation Methods: CIMIS vs. Penman – Montith in the ASCE Journal.

Began investigation into the net radiation estimation used by CIMIS and drafted a scientific paper for publication.

Managed Proposition 13 ET controller workshops.

Lead Agency: DWR.

Reclamation provides technical assistance to water suppliers through agreements with the Cal Poly Irrigation Training and Research Center (ITRC), the California State University, Chico, Fresno State's Center for Irrigation Technology, and the Agricultural Water Management Council (Council). As an example of this technical assistance, the ITRC trains district staff at San Luis Obispo with their Rapid Appraisal Program. This program evaluates irrigation and district's facilities and operations to improve water management. The ITRC annually conducts several 1 to 3 day training classes for approximately 150 participants per year. Most participants are district staff, state and Federal employees or private contractors. Classes focus on the latest technologies for improved irrigation management. Topics covered include water distribution system automation, water measurement, and optimal canal operation. In addition to training district staff, Reclamation supports ITRC's Annual Design/Manager School which supports improvements in on-farm irrigation, drainage reduction, and enhanced groundwater and surface water quality. The ITRC also offers onsite training for Reclamation's water users on specific topics related to irrigation and drainage. These include irrigation evaluation, water delivery modernization, drainage, water quality, and irrigation scheduling. In addition federal funding to Council will assist the Council in monitoring and evaluating the implementation of efficient water management practices by agricultural water suppliers. The Council's work will assist the USBR, DWR, and CALFED in developing a program of technical and financial incentives for water use efficiency in the agricultural sector and can be used to enhance Reclamation's Criteria for Evaluating Water Management Plans required under the Central Valley Project Improvement Act.

Lead Agency: USBR with cooperation from DWR, and CBDA.

Developed user guides: Monitoring and Assessment of Canal Lining Water Savings, Monitoring and Assessment of On-Farm Improvements, Monitoring and Assessment of Spillage Reduction. The guides are intended to aid in estimates of project benefits in water use efficiency.

Lead Agency: USBR with participation by DWR, NRCS and CBDA.

The Southern California Area Office also spends about \$1 million for water use efficiency activities.

Lead Agency: USBR.

Standard Criteria for Evaluating Agricultural and Urban Water Management Plans (Plans) Completed in December 2005. All Plans submitted after December 2005 will be evaluated based on these Criteria.

Lead Agency: USBR.

USBR is currently reviewing Plans submitted by Refuges in accordance with the Criteria for Developing Refuge Water Management Plans. USBR is also working with the Sacramento Valley Contractors who are developing a Regional Plan in accordance with the Regional Criteria for Evaluating Water Management Plans for the Sacramento River Contractors.

Lead Agency: USBR with participation by CBDA.

Facilitated technical assistance to water suppliers and water users through the Water Conservation Field Services program (Grants, above).

Lead Agency: USBR.

Provided technical assistance to growers throughout the state for the adoption of new irrigation equipment and improved water management techniques. In addition, local contracts with four Resource Conservation Districts were signed to provide technical assistance on irrigation water management to recipients of incentive payments for sprinkler and micro-irrigation systems. Lead Agency: NRCS.

Recycling Technical Assistance

Continued to provide technical, biophysical, and engineering-oriented knowledge on water recycling and desalination issues; conducted 9 workshops and meetings with technical presentations; responded to policy makers, legislators, and regulators on issues related to water recycling and desalination; responded to public questions and inquiries regarding water recycling and desalination permitting process; participated in the Southern California Water Recycling Project Initiative II; provided staffing and technical support to help implement the Recycled Water Task Force's recommendations; Participated in the Water Use Efficiency grant application reviews. Completed 4 research projects with local agencies and University of California Davis to fill in knowledge gap in optimizing the energy needs in the treatment and use of recycled water, final reports are being prepared. Published DWR water facts # 23 on Water Recycling. In collaboration with local water agency, published three technical papers on recycled water production and use.

Lead Agency: DWR.

Continued to provide technical knowledge on water recycling, including response to question from policy makers, regulators, state and local agencies and the public on permitting issues; public health regulations; and types, locations, and amounts of water reuse occurring. Continued participation on Department of Health Services Recycled Water Committee.

Lead Agency: SWRCB.

In Federal Fiscal Year 2005 - it is expected that the Southern California Area Office will award \$10.5 million in Title XVI Programs.

Lead Agency: USBR

Water Desalination Technical Assistance

Participated in the California Landscape Task Force pursuant to AB 2717 and assisted in preparation of the LTF recommendations; participated in the California Water Plan Update processes by providing technical support related to water recycling and desalination; helped increase public awareness on the importance of water recycling issues and projects; improved the Water Recycling and Desalination Web site-www.owue.water.ca.gov/recycle.

The USBR Southern California Area Office has provided technical assistance to Long Beach Water Department for the Seawater Desalination Pilot Plant.
Lead Agency: USBR.

Assurances

Urban Certification

Urban water conservation BMP certification was delayed due to lack of resources and difficulty in reaching consensus among all parties involved in developing and implementing an urban certification process. The issue was discussed at the BDPAC WUE Subcommittee meeting in February 2005. CBDA and the agencies will continue work on urban certification.

Lead Agency: CBDA with participation by DWR, USBR, and SWRCB

Science and Monitoring

DWR provided for the proposal and implementation process to be accessible to all agencies involved in water use efficiency activities and for incorporating more scientific measures into the program. DWR, CBDA, and SWRCB staff and their scientists and economists were participants in science and economic review of Proposition 50 WUE proposals. DWR, USBR, and DHS are participants in water desalination Agency Team reviewing and selecting proposals.

Incorporated concepts from the Science Application Advisory Committee (SAAC) into the 2004 WUE Proposal Solicitation Package (PSP) to improve the monitoring and evaluation of WUE projects. Water conservation proposals received by DWR under the Proposition 50 grant PSP were reviewed by economic and science panels and science and economic review scores were used in calculating proposal's total score and ranking. Proposals were required to have a monitoring and assessment plan allowing for future assessment and evaluation of the effectiveness and benefits of CALFED funding of water conservation projects.

Lead Agency: DWR with participation by USBR, SWRCB, and CBDA.

Quantifiable Objectives/Targeted Benefits

Targeted Benefits and Quantifiable Objectives were developed for the CALFED ROD to provide irrigated agriculture with an objective list of resource management goals. Through a process that involves a quantified target and water balances, a Quantifiable Objective (QO) is developed and expressed in acre feet or in water quality units. In a simplistic sense, a QO represents a water order: an amount of water needed at a specific location for a given period of time. Water suppliers and growers can use this information to propose system upgrades to meet the stated objective.

To date 55 of the 194 Targeted Benefits are available as QO's. The Water Use Efficiency Proposal Solicitation Packages (PSP's) are generating interest and activity in QOs. The Bureau of Reclamation has integrated QO's into its standard and regional criteria. And the Agricultural Water Management Council works with water districts to help them integrate QO's into the Councils' efficient water management practices process.

Though there has been important progress, in its review of QO implementation to-date and its assessment of the potential for QO's to continue serving as a foundation for agricultural water use efficiency actions, the Water Use Efficiency Subcommittee, in Year 5, generally agreed to the following:

- Quantifiable Objectives have been difficult to implement due to resource and marketing constraints. Accordingly, the Program should not invest additional resources at this point in articulating new QO's. That said, the Program should continue to use those QO's already articulated to track progress and assess program effectiveness.
- Targeted Benefits seem to offer a simpler, yet still effective method, to guide agricultural water users' investments in actions that can meet CALFED objectives. Accordingly, the Program should recast its effort to emphasize pursuit of Targeted Benefits. In doing so, agencies need to make a renewed effort to prioritize the funding of Targeted Benefits-related projects.

Shifting from Quantifiable Objectives to Targeted Benefits significantly impacts the QO-based set of assurances developed for the Ag WUE Program. Accordingly, a new package of assurances needs to be developed to assess program effectiveness. Work Group members brainstormed a possible new set of measures to track progress. The Work Group developed a list of actions. WUE Agency staff developed the following recommendations that are incorporated into the WUE Program Plan.

Refocus Program activity on implementation of Targeted Benefits rather than Quantifiable Objectives. Implementing agencies through grant funding or technical assistance will promote marketing the Targeted Benefits and Quantifiable Objectives, assist districts in linking EWMPs to TBs and QO's; encourage districts in pursuing grant funding; monitor, verify, and assess the public benefits of the WUE funded projects and the extent of progress towards achieving TBs. DWR and USBR will continue cooperation with the AWMC to further achievement of TBs.

Funding: Included in Science and Monitoring.

Participating agencies: DWR, USBR, CBDA, and NRCS.

This effort will rely on the following activities:

- Update Targeted Benefits. Review and revise existing listing of Targeted Benefits. Involves updating existing Targeted Benefits, quantifying flow targets for those Targeted Benefits not yet quantified; and eliminating those Targeted Benefits no longer relevant.

Lead agency: DWR, with support from CBDA and USBR
Funding source: Possible Proposition 50- (WUE science and monitoring funds); USBR Water 2025

- Outreach. Continue work with agricultural water suppliers to promote marketing of Targeted Benefits and linkage with EWMPs and to encourage districts to pursue grant funds. Conduct regional workshops and meetings and continue promoting integration of Targeted Benefits into the AWM Plans and Implementation of Efficient Water Management Practices, and in grant funding proposals.

•

Lead agency: DWR, with support from AWMC

- Continue promoting integration of Targeted Benefits into USBR regional and standard (CVP) criteria.
- Prioritized Grant Funding. Review and revise CALFED-related, water use efficiency grant funding criteria to give higher priority (more score in ranking) to those implementation grant projects with an articulated linkage to Targeted Benefits (The Workgroup recognized that this approach may not be easily implemented by the State Board, given other mandates and water quality issues). Similarly, funding for non-implementation grants (research, pilot and feasibility) must be targeted towards those projects that foster Targeted Benefits pursuit.

Monitoring/Verification.

Project Level Monitoring/ quantification of benefits and costs. Manage projects to ensure benefits are realized. This entails monitoring, verifying and assessing the local and public costs and benefits of the WUE-funded projects and the extent of progress towards achieving Targeted Benefits and already articulated Quantifiable Objectives. It also entails monitoring, verifying and assessing grant outcomes – at project level – to track whether actions produced expected outcomes, analyze results/findings of implementation of grant proposals to verify/quantify water savings; reduction of applied water; water quality benefits; in-stream flow benefits. Continue using already articulated Quantifiable Objectives to track progress and assess program effectiveness.

Funding: Science and Monitoring.

Co-Lead agency: DWR, USBR and State Board take the lead for their grant programs; ongoing cross-agency coordination

Program Level Monitoring

Evaluate the local and public costs and benefits of the WUE funded Program. Integrate results and findings of project level implementation in an overall and comprehensive analysis to summarize program benefits and achievements regarding CALFED WUE goals for urban and Ag (Targeted Benefits).

Co-Lead agency: Each implementing agency – DWR, USBR and State Board – take the lead for its own grant program; ongoing cross-agency coordination.

Assurances Package. Assurance Package is a set of mechanisms structured to ensure water users implement appropriate efficiency measures. Work with stakeholders to update assurances package associated with agricultural water use efficiency program implementation. Also work with other CALFED implementation agencies to broaden non-WUE contributions and focus on Targeted Benefits implementation.

Lead agency: DWR

Contract Funding: Amount and source to be determined

Consistent with Integrated Water Management Planning efforts, develop partnerships with DWR, SWRCB and CBDA Water Quality and ERP to actively participate in development of Targeted Benefits as related to water quality and in-stream flows. Preferably, forge funding partnership so that portions of each/any proposal submitted as requirement of PSP process related to water quality and stream flow improvements are funded by Water Quality and ERP. This program integration may require active participation of Water quality and ERP in the review and evaluation of proposals for funding related to water quality and in-Stream Flow benefits is critical part of this partnership. This will ensure that stated water quality and stream flow benefits have merits and worthy of funding.

Lead agency: DWR Contract

Funding: Amount and source to be determined

The State Budget included Proposition 50 funding for FY 05-06 which is intended for science and monitoring, evaluation of past WUE projects, projecting future water savings, and other essential science elements of WUE. DWR initiated to compile and analyze data and information from Prop 13 completed contracts. Likewise, a comprehensive summary of results from SB 23 urban WUE contracts will be prepared. An analysis will be done to verify benefits of completed projects. DWR and University of California – Davis will initiate a study to improve vegetative water use estimates. The program is designed to improve water use estimates of both agricultural and urban landscape water use. Methodologies established in this peer reviewed process will be carried forward in subsequent years to continuously improve vegetative water use estimates. Improvement of water use estimates will benefit WUE, Water Management, Storage, EWA, and Ecosystem Restoration.

DWR initiated reviewing and repackaging of the Targeted Benefits. A draft revised list of prioritized TB's has been prepared. The existing QOs and the list of prioritized TBs will be included in the next WUE PSP. Grant funding will be linked to TB and other project benefits. No further work is currently planned for development of new QOs.

DWR initiated an agreement with the AWMC to develop and implement an outreach program for a more focused effort of implementing Targeted Benefits in the next Proposition 50 funding cycle.

DWR worked with stakeholders and developed a Draft Ag Assurances Strategy. The Ag Assurance Strategy is based on adaptive management of the resources available to agencies.

DWR has initiated review of previously funded projects (Proposition 13 and SB 23). This evaluation will help determine the effectiveness of the grant funding programs.

DWR has prepared utilized the list of Performance Measures developed for USBR's RFP and adapted it for inclusion in the 2007 WUE PSP. Monitoring and Assessment Plan and identification of Performance Measures will be required in the 2007 PSP.

Lead. DWR.

Previous Year's activities:

Major activities for Year 6 are listed below.

One of the ROD requirements is for implementing agencies report annually on the implementation efforts, including availability of local share financing, and recommendations on removing any impediments to implementation.

Tasks accomplished in year 6

The following ROD commitments were accomplished during year 6:

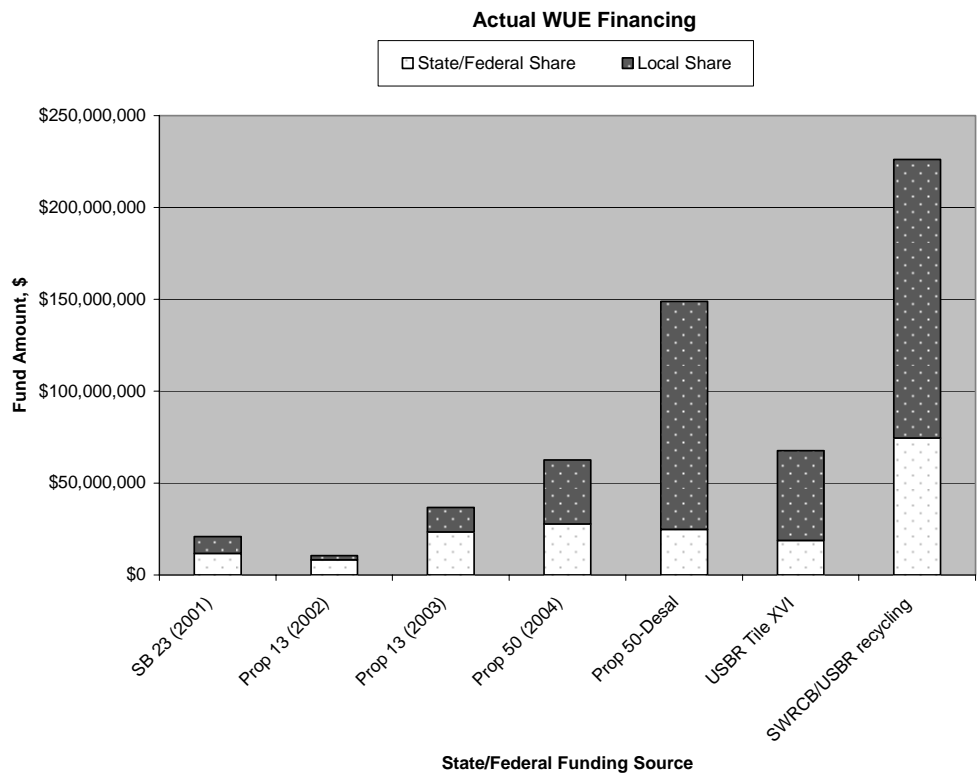
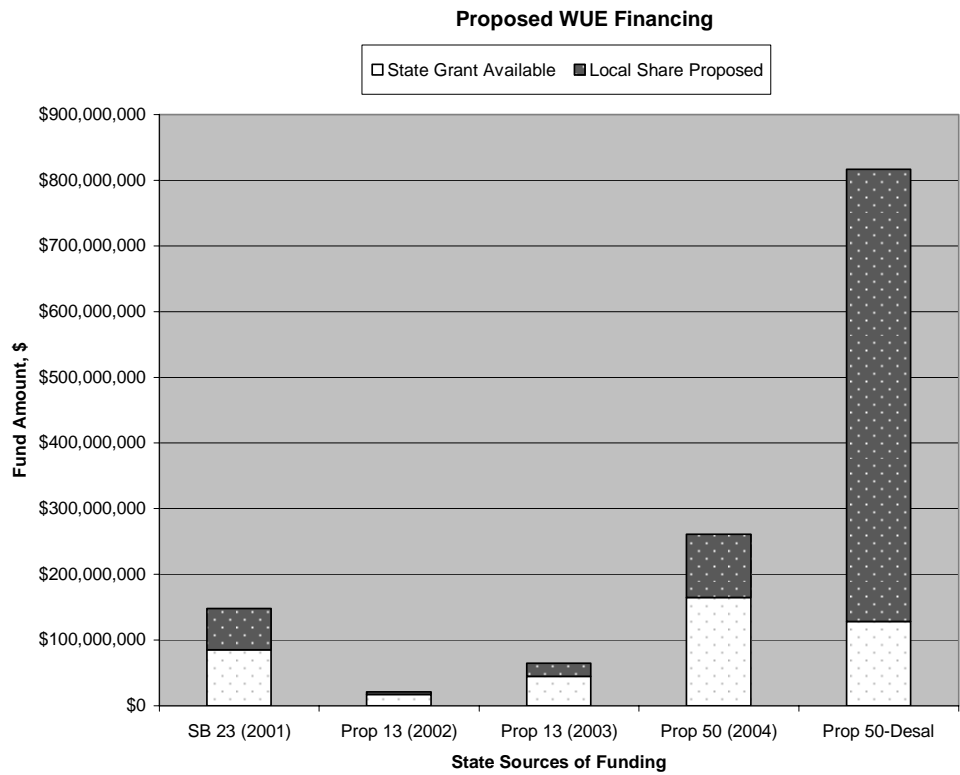
- Since 2000, CALFED agencies have conducted a number of grant programs requiring local share in financing the local projects. The local agencies have responded positively. The insert charts show local agencies proposed local share (applicant proposed local share when submitting application) as well as local agencies' actual local share (grantee's committed local share). In some cases local agencies use State dollars for their local share of federal funds. The charts indicate that there is willingness to provide significant local share for WUE projects.
- Began negotiations with 75 Proposition 50 WUE grantees and executed majority of contracts
- Release of desalination grant solicitation package.
- DWR initiated review of the previously funded projects.
- USBR began implementing the Refuge Water Management Plan criteria.
- USBR began implementing Regional Criteria for the Sacramento River Contractors.
- A significant development in Year 6 was implementation of AB 2717 by the CUWCC and publication of the Water Smart Landscape for California. The CUWCC submitted the Report to the Governor in 2005. The Report makes a number of recommendations to improve urban water use efficiency.

Tasks on schedule for year 6

- The Central Valley Project Improvement Act (CVPIA) required the development of Standard Criteria to evaluate water conservation plans.
- Agricultural and urban technical assistance, grants.
- Performance measures: More specific Performance Measure information is incorporated into Year 6 RFPs and PSPs.
- Evaluation- work is underway to review previously funded projects.
- Water recycling grants.
- Began planning for CALFED Coordinated Actions.

Tasks behind schedule for year 6

- DWR in cooperation with other agencies and stakeholders have identified (in California Water Plan Update) urban implementation challenges and impediments; such as marketing, lack of sufficient data, lack of quantified and reliable savings estimates, incentives, leak detection costs; that need to be further studied and the identified barriers removed for improving water conservation. These projects were eligible for funding for DWR's 2004-05 PSP and USBR's 2006 RFP, including project monitoring and verification. DWR through an agreement with the Ag Water Management Council is analyzing the 2004-05 PSP applications to determine the impediments for agricultural applicants and also identify the reasons for the low success in the grant process. While, progress is being made, more work is needed to address these implementation challenges.
- Urban BMP certification: This activity was delayed due to lack of resources and no decision by participating agencies.
- Update and refinement of QO. The WUE Subcommittee recommended that the agencies focus on the existing QOs and refinement and implementation of the Targeted Benefits and no new QOs to be developed.
- Targets: Revision of targets and development of targets were delayed until after Year 4 Comprehensive Evaluation is completed. The Targets will be visited in Year 7.
- Water use measurement legislation. This activity was delayed due to legislative process. Draft legislation was prepared but no more activity took place in Year 6.



Activity

To continue to meet the ROD requirements, implementing agencies plan to report annually on the implementation efforts, including availability of local share financing, recommendations on removing any impediments to implementation.

The CBDA's Draft WUE Comprehensive Evaluation Report recommends urban certification; assurances, water use measurement, improving collection of data, closely monitor, verify, and track results, and review grant program structure and protocols. These recommendations inform the Activities planned for Year 7.

The following activities are planned for year 7.

CBDA and implementing agencies have a number of major activities underway. Some of these activities are required by the ROD and were identified in the WUE Implementation Program Plan. Major activities include DWR's continuing work on water desalination Proposition 50 proposals and 2007 agricultural and urban WUE grant proposals, the SWRCB Proposal Solicitation Package and Reclamation funding for water recycling and NRCS' Environmental Quality Incentives Program (EQIP) (Category B) and other technical assistance for on-farm water management. Other major activities include the implementation of the Recycled Water Task Force Report, practical application of science concepts, technical assistance to agricultural and urban water users, and coordination with CBDA under the Coordinated Actions. Priority is given to activities that are expected to meet the ROD commitment. The Major Activities reported are priorities for funding. Funding for Year 7 is sufficient to provide for high priority activities. But after Proposition 50 funding is used up, no funding is presently available to support future water conservation projects. Six DWR positions are currently funded by Proposition 50 to support WUE programs. The Water Use Efficiency finance element of the CBDA 10-Year Finance Plan outlines the funding needs for years 5 to 14 (source: CBDA 10-Year Finance Plan, December 2004). The funding target for the ten year planning period is \$3.15 billion or an average of \$315 million per year. Future funding levels are uncertain or unavailable and compared to Finance Plan funding levels will be inadequate. However, the shortfall in funding is not specified due to unavailability of future funding information.

The Activities planned for Year 7 are consistent with the Program tasks and ROD objectives and commitments. Program implementation reflects beneficiary pays approach including local cost share for implementation projects. DWR's 2007 PSP will continue to require local matching fund for its grant program, consistent with the ROD requirements.

As a part of implementing the major activities, agencies monitor and to the extent available report back annually on the funds spent, activities undertaken and the results. The precise timing of this assessment will be determined by agencies.

The grant programs by the implementing agencies pursues the ROD objective of incentives vs regulation.

Agencies will continue to improve involvement of Tribes and Environmental Justice groups through CALFED, outreach, and the public hearing process.

Urban Conservation Projects

Grants

Continue to work on the 2004 WUE PSP projects completing the execution of the remaining contracts with grantees and contract management. Issue the Proposition 50 2007 WUE PSP when grant funding becomes available. Urban and agricultural water use efficiency implementation as well as research and development projects are eligible for funding. Urban BMPs, EWMP and the Recommendations and actions of the Water Smart Landscape for California, the Landscape Task Force Report will be eligible under DWR grant funding. Furthermore, DWR 2007 PSP will provide opportunity to proposals that will remove the implementation impediments for both agricultural and urban water use efficiency. This Program Plan and DWR PSP will also outline the strategy to monitor, track, and verify project and program outcomes.

Draft PSP will be issued, workshops will be held for public comment, and review will be obtained from WUE stakeholders. Efforts will be made to include tribes and incorporate Environmental Justice in the development and implementation of the PSP's. Continue to strive for a balance between making the proposal and implementation process as accessible as possible to all agencies involved in water use efficiency and incorporating more scientific measures into the program. Proposals will be reviewed and selected based on the criteria outlined in the PSP document.

Grant funding ends in 2007-08 and program will discontinue unless new grant funds become available. The planned grant dollars are not sufficient to meet ROD objectives.

Funding: \$15.07 million dollars for grant funding and \$0.36 million for grant administration.

Schedule: Contracts issued in 2006 and 2007.

Lead Agency: DWR with participation by CBDA, SWRCB, NRCS, and USBR.

Implementing agencies will include necessary descriptions and a criterion in the PSP to ensure public benefits, monitoring and verification.

Participating agencies; DWR, SWRCB, NRCS, USBR, and CBDA.

In Fiscal Year (FY) 2006, USBR's Mid-Pacific Region water conservation staff is expected to award grants in contracts and grants through an RFP on www.grants.gov for urban water conservation for MP Region.

Funding: \$1.51 million with 50% local cost share.

Schedule: FY 2007.

Agricultural Conservation Projects

Loans:

The Proposition 13 loan will be available for agricultural water conservation projects in future years. This loan program is managed by DWR Division of Planning and Local Assistance in Sacramento.

Funding: \$15 million [BCP to be verified]

Schedule: FY 2006-07.

Lead Agency: DWR.

Grants:

Continue to work on the 2004 WUE PSP including execution of the remaining contracts with grantees and contract management. Issue the Proposition 50 2007 WUE PSP when grant funding becomes available (combined with urban PSP. See urban PSP). \$15.07 million of 2006-07 Proposition 50 funding will be available and approximately \$5.2 million of agricultural grant funds in FY 04-05 was not used and will rollover to 2007 PSP.

Funding: \$20.26 million Proposition 50 WUE funding. \$0.28 million of proposition 50 funds and \$0.103 million from proposition 13 for program administration. Grant funding ends in FY 2007-08 and the program will discontinue unless new grant funds become available. The planned grant dollars are not sufficient to meet ROD objectives.

Implementing agencies will include necessary descriptions and a criterion to PSP's to ensure public benefits, monitoring and verification.

Participating agencies: DWR, SWRCB, NRCS, USBR, CBDA.

In Fiscal Year (FY) 2007, USBR's Mid-Pacific Region water conservation staff is expected to award grants in contracts and grants through an RFP on grants.gov for agricultural water conservation for MP Region. Local cost share for federal funds is 75%.

Funding: \$1.51 million in FY 2007

NRCS continues to implement the Environmental Quality Incentives Program (EQIP) (Category B), which provides cost share incentive payments to encourage installation of water conservation practices. Funding available in EQIP for on farm implementation is based on prior year estimates of EQIP practice cost share expenditures that complemented CALFED WUE Agricultural Water Conservation goals.

Funding: As available. No estimate is provided for beyond FY2007 because the 2002 Farm bill will be up for reauthorization in FY2007.

Schedule: Annual Budget Authorization by Congress

Lead Agency: Lead Agency: NRCS.

Water Recycling Projects

Grants and Loans

SWRCB major activities for FY 2005-06 through FY 2008-09 are as follows:

Continue administering grants and loans from Proposition 50 (grants), State Revolving Fund (loans), 1984 Bond Law (loans), and Proposition 13 (2000 bond issue, grants and loans) for planning and construction of water recycling projects. Under criteria in the CALFED Bay-Delta Program Programmatic Record of Decision, these programs are classified as Category B funding programs except for funds authorized by Proposition 50, which is a Category A funding source.

Lead Agency: SWRCB, participation by CBDA for Proposition 50 funding.

Funding: The Legislature appropriated \$42.2 million in FY 2003-04 from Proposition 50 for grants for construction of water recycling projects, committed in Year 6. Loan repayments from previous loans under the 1984, 1988, 1996 and 2000 (Proposition 13) Bond Laws are available to continue loans and grants for planning and construction of water recycling projects. The State Revolving Fund can be used for water recycling projects, but there is no set allocation for this purpose. Proposition 13 funds under existing contract will be administered for additional research proposals. A small amount of additional research funds will become available from loan repayments.

Funding: Funds from Proposition 50 and the loan repayments from Proposition 13 loans are available for administration.

Lead Agency: SWRCB with participation by CBDA.

Schedule: FY 2006-07

Continue administering Integrated Regional Water Management Grant Program implementation grant proposals, which potential could include water recycling projects. Funding: Proposition 50, Chapter 8 funds.

Lead Agency: DWR and SWRCB

In Fiscal Year 2007, the President's Budget indicates funding for recycling programs, Funding: \$7.95 million with 75% local share.

Lead Agency: USBR

Research Grants

SWRCB major activities for FY 2006-07 are to continue water recycling research projects.

Funding: Up to 3 percent of loan repayments from Proposition 13 loans may be used for water recycling research. \$.03 million of Proposition 13 funds are used for research grant administration.

Schedule: ongoing

Lead Agency: SWRCB

Develop a project tracking database for SWRCB-funded water recycling projects, including administrative data as well as recycled water delivery data.

Funding: Administration funds for the State Revolving Fund and Propositions 13 and 50 for task administration.

Schedule: Ongoing

Lead Agency: SWRCB.

USBR provides funding to WaterUse Association, who in turn, provides research grants for water recycling. Studies funded nationally in other states often benefit California water recycling efforts.

Funding: \$8.91 million for FY 2007.

Desalination Implementation (Includes Desalination Research)

DWR major activities for 2006-07 are to continue water desalination grants program to include the management of 24 different projects worth \$24.75 million of State share which were awarded through the 2005 1st cycle of the desalination grant process. In addition, DWR in 2006-07 will start negotiating contracts with grantees and execution of agreements and agreements management to disburse Year 6 funding for 21.5 million, the remaining Proposition 50 Funds.

Schedule: No more future grant funding is available. Administration is ongoing

Lead Agency: DWR

Funding: \$0.25 million of Proposition 50 and \$0.35 million Proposition 50 funds for program administration in FY 2006-07

Technical Assistance, Assurances, Science, Oversight and Coordination

Technical assistance for water users is an ongoing effort at the agencies. Support of and cooperation with the California Urban Water Conservation Council and Agricultural Water Management Council will continue. This includes but is not limited to working with these organizations to evaluate Urban and Agricultural Water Management Plans and development of and implementation of Best Management Practices.

Participation with associations, and organizations relating to water desalination, water recycling, landscape water use, and agricultural irrigation efficiency will also continue.

Urban Technical Assistance

- Landscape training,
- Promote California Friendly Landscape
- Manage Proposition 13 and 50 contracts
- Support BMP 5 in coordination with CUWCC
- Disseminate information on landscape water conservation
- Distribution system water audit and leak detection
- Assist with new mobile labs
- Assist urban agencies with irrigation scheduling
- Participate in evaluating and research of potential BMP's
- Develop protocol for estimating environmental benefit of BMP implementation
- Review about 400 Urban Water Management Plans and provide technical assistance
- Publish articles in Water Conservation News and brochures
- Develop and manage Urban Water Management Plan database
- Participate in Commercial, Industrial, and Institutional water conservation through workshops, conferences, and outreach
- Support urban technical assistance projects through technical assistance grants.
- Manage Proposition 13, Senate Bill 23, and Proposition 50 WUE-funded projects, including project monitoring, verification, and assessment of costs and benefits and related reports.
- Assist the CUWCC with the implementation of the Water Smart Landscape for California, Landscape Water Conservation Task Force Recommendations (LTFR)
- Plan implementation of the LTFRs that are expected of DWR.

Funding: \$0.224 million in general fund for WUE. \$0.87 million in Urban ERPA funds. \$0.95 million of Proposition 50 funds for technical assistance special projects including eligible recommendations and actions of Water Smart Landscape for California.

Schedule: FY's 2006-07 and 2007-08.

Lead Agency: Lead Agency: DWR.

Through the Water Conservation Field Services Program (WCFSP), USBR will provide technical assistance to its urban contractors. These efforts can be seen through agreements with California Polytechnic State University San Luis Obispo's Irrigation Training and Research Center, California Farm Water Coalition, Fresno State Center for Irrigation Technology, Universities of California- Riverside, California State Universities San Bernardino and Chico, and the Water Education Foundation's Project Water Education for Teachers. Lead Agency: USBR.

Funding: Included in the water conservation budget

Schedule: Ongoing

Agricultural Technical Assistance

DWR provides ongoing assistance through the AWMC process to agricultural water suppliers by providing information to implement efficient water management practices and help local agencies in their efforts to prepare Water Management Plans and biannual progress reports by providing brochures, bulletins, and holding workshops. Also, review and evaluate Agricultural Water Management Plans.

Technical assistance for agricultural water management planning and implementation

Review and evaluate AWMP and biannual progress reports.

Conduct two meetings/workshops for water districts in each DWR's four Districts

Continue to participate in the 3-way cooperative agreement and partnership with USBR and AWMC on tasks identified in the cooperative agreement. The 3-way Cooperative Agreement is a joint effort by USBR and DWR to provide funding to the AWMC for specific activities. The Cooperative Agreement activities include increasing participation of agricultural water districts in water management planning and implementation of efficient water management practices; provide technical and financial assistance to the water districts to prepare an AWMC Water Management Plan (WMP); develop a data base, develop a model WMP, outreach activities that inform water districts of new and innovative technologies and management practices; and refinement and improvements in the AWMC Net Benefit Analysis.

Assist AWMC to further develop the data base containing water management plans information. As part of the 3-way Cooperative Agreement, the data base structure and format was developed. The AWMC initiated locating and compiling data and information into the data base. The database contains information comes from water management plans that have been reviewed by DWR and endorsed by the AWMC.

Support the AWMC development of a searchable online database that catalogues ag water resources from reports, studies and other sources.

Publish articles on district efforts to improve water management and efficient water management practices implementation in WC News or in the AWMC's Best Management Practices.

Continue assisting AWMC to incorporate QO's in the Water Management Planning, Net Benefit Analysis, and the Model Water Management Plan

Assist with the development of agricultural water use efficiency strategy for the California Water Plan Update

Assist with new mobile labs

Statewide information on irrigated acreage and water conservation

Support agricultural technical assistance through technical assistance grants.

Manage Proposition 50 2004 projects, Proposition 13, and Senate Bill 23 funded projects; including project monitoring, verification, and assessment of costs and benefits and related reports.

Funding: \$0.07 million of general fund, \$1.017 million of Ag ERPA, and \$0.95 Proposition 50 agriculture technical assistance special projects funds including specific efforts that remove the barriers to water use efficiency implementation.

DWR staff will support technical assistance to agriculture in implementing and achieving the CALFED Water Use Efficiency Program goals and objectives.

Schedule: Ongoing

California Irrigation Management Information System (ag and urban)

Operate and maintain over 135 California Irrigation Management Information System stations statewide and disseminate data to the public in support of both ag and urban water users). Assist local water agencies to install new CIMIS weather stations. Collect, process QC/QA, and disseminate CIMIS data to the public through the CIMIS web page, www.cimis.water.ca.gov, and provide technical assistance.

Provide statewide operations maintenance, calibration, and technical assistance, in resolving problems with DWR and cooperator owned CIMIS weather stations. Continue collecting data and providing assistance for maintaining 3 weather station towers for the Salton Sea Authority investigation

Manage Bryte Lab activities and equipment repair and calibrations.

Update maintenance and operation files.

Provide local technical assistance on the use of CIMIS and efficient irrigation scheduling. Continue outreach activities at conferences, workshops, and educating foreign visitors and scientists.

Refine and update content and the JAVA struts technical platform for the new CIMIS web page to facilitate the increased demand for data, technical information, and

water management assistance. Implement new reporting methods from the CIMIS web page. Contract with University of California Davis to further refine daily ETo zone maps (GOES) for California using remotely sensed data and spatial interpolation methods, and to be made available to the public through the CIMIS web page including GIS capabilities.

Implement new data web client acquisition platforms protocol to provide data more seamlessly. Implement the new logger net polling pc's to production more frequent CIMIS data updates.

Manage Proposition 13 ET controller contracts and Proposition 50 contracts.

Continue investigations into CIMIS ETo estimation of net radiation, moving the net radiometers from UC Davis to remote locations at Fresno and Gerber agroclimatic stations. Publish scientific paper on the investigation. Possibly look into surface Renewal as a way of developing crop and landscape coefficients.

Continue partnership with the CUWCC to promote and initiate the non-ideal site program. This program is designed to assist the urban water agencies with water management, runoff reduction, and best management practices (BMP) implementation. It will include installation of a weather station net work, data analysis, and the development of a new CIMIS data base. Participate in the CUWCC Landscape Subcommittee, Sustainable Building Task Force Technical Advisory subcommittees, and Irrigation Association ET controller investigations.

Continue publish articles in CATI and the Water Conservation News and other media. Update the Agricultural and Urban Resource Books and the CIMIS Field Maintenance Guide.

Publish scientific paper on Comparing Net Radiation Estimation Methods: CIMIS vs. Penman – Montith in the ASCE Journal. Began investigation into the net radiation estimation used by CIMIS and drafted a scientific paper for publication
Lead Agency: DWR.

Funding: \$0.76 M general fund to support staff (\$0.38 M for agriculture and \$0.38 M for urban).

Through the Water Conservation Field Services Program (WCFSP), USBR will provide technical assistance to its agricultural contractors. These efforts can be seen through agreements with California Polytechnic State University San Luis Obispo's Irrigation Training and Research Center, California Farm Water Coalition, Fresno State Center for Irrigation Technology, Universities of California- Riverside, California State Universities San Bernardino and Chico, and the Water Education Foundation's Project Water Education for Teachers.

Funding: Included in the water conservation budget,

Schedule: Ongoing. Lead Agency: USBR.

Continue to provide technical assistance to producers throughout the state for the adoption of new and improved water management techniques. Lead Agency: NRCS.

Recycling Technical Assistance

Water Recycling Technical Assistance

In collaboration and coordination with stakeholders, DWR continues to provide technical, biophysical, and engineering-oriented knowledge on water recycling through:

- Developing guidelines for water recycling regulation and permitting requirements.
- Identifying potential water recycling projects.
- Developing user friendly water quality guidelines for recycled water use in landscape.
- Helping implement the Recycled Water Task Force's recommendations.
- Informing policy makers, legislators, and regulators of water recycling opportunities and impediments.
- Increasing public awareness and disseminate knowledge and information on the safe use of recycled water through research, publications and participation in technical and outreach meetings.
- Coordinating with federal, State, and local agencies to advance local and regional water recycling.
- Publishing technical papers.

Lead agency: DWR and SWRCB.

Funding: \$0.11 million of Proposition 204 for technical assistance

Continue to provide technical knowledge on water recycling, including response to questions from policy makers, regulators, state and local agencies and the public on permitting issues; public health regulations, and types, locations, and amounts of water reuse occurring. Continue participation on Department of Health Services Recycled Water Committee. Provide assistance to implement recommendations of the Recycled Water Task Force.

Funding: Administration funds from various bond issues

Schedule: Ongoing

Lead Agency: SWRCB

Funding: \$0.01 million

Water Desalination Technical Assistance

In collaboration and coordination with stakeholders DWR continue to provide technical, biophysical, and engineering-oriented knowledge on water recycling through:

- Developing guidelines for water desalination regulation and permitting requirements.

- Identifying potential water desalination projects.
- Developing user friendly planning guidelines for desalination projects.
- Help implementing the Desalination Task Force's recommendations.
- Informing policy makers, legislators, and regulators of desalination opportunities and impediments.
- Increasing public awareness and disseminate knowledge and information on technical advancements on desalination technologies.
- Coordinating with federal, State, local agencies and other stakeholders to advance local and regional water desalination. Publishing articles in the WCN about desalination.

Lead- DWR

Schedule- ongoing

Funding- No funding in 06-07.

Managed Wetlands Technical Assistance

Through the Water Conservation Field Services Program (WCFSP), USBR will provide technical assistance to its refuge contractors. These efforts can be seen through agreements with California Polytechnic State University San Luis Obispo's Irrigation Training and Research Center, Fresno State Center for Irrigation Technology, and the California State University's Chico Irrigation Training Center.

Lead Agency: USBR.

Funding: included in the water conservation budget

Schedule: Ongoing

Assurances

Performance Measures:

Facilitate the evaluation of programmatic performance of the WUE element by developing WUE performance measures, including indicators of the progress towards achieving those goals. Staff will also monitor the performance of WUE projects through methods that estimate the cost and performance of WUE projects. Performance may be measured by the volume of water conserved or recycled or through other qualitative or quantitative means.

Funding: DWR's funding is included in Science and Monitoring section.

Schedule: 2006-07, 2007-08

Lead Agency: Lead Agency: DWR with cooperation from, SWRCB, USBR, and NRCS.

Urban Certification

Implementing agencies will take the issue for discussion with CBDA and stakeholders for determining future of this activity. Co-lead agencies: SWRCB, DWR, USBR and CBDA.

Quantifiable Objectives/Targeted Benefits

Agencies will continue incorporation of QOs and TBs in future programs and projects.

- Outreach. Continue work with agricultural water suppliers to promote marketing of Targeted Benefits and linkage with EWMPs and to encourage districts to pursue grant funds. Conduct regional workshops and meetings and continue promoting integration of Targeted Benefits into the AWMP and Implementation of Efficient Water Management Practices, and in grant funding proposals.
Lead agency: DWR, with support from AWMC
- Continue promoting integration of Targeted Benefits into USBR regional and standard (CVP) criteria.
- Prioritized Grant Funding. Review and revise CALFED-related, water use efficiency grant funding criteria to give higher priority (more score in ranking) to those implementation grant projects with an articulated linkage to Targeted Benefits (The Workgroup recognized that this approach may not be easily implemented by the State Board, given other mandates and water quality issues). Similarly, funding for non-implementation grants (research, pilot and feasibility) will be targeted towards those projects that foster Targeted Benefits pursuit.

Science/Monitoring/Verification.

Proposition 50 funding was appropriated for science and monitoring activities to determine effectiveness of the Proposition 50 grant funding expenditures. DWR will conduct the necessary research, monitoring and verification of WUE funded projects and invest in studies or projects that improve the scientific basis of water use efficiency projects. One activity is Project Level Monitoring/ quantification of benefits and costs. Manage projects to ensure benefits are realized. This entails monitoring, verifying and assessing the local and public costs and benefits of the WUE-funded projects and the extent of progress towards achieving Targeted Benefits and already articulated Quantifiable Objectives. It also entails monitoring, verifying and assessing grant outcomes – at project level – to track whether actions produced expected outcomes, analyze results/findings of implementation of grant proposals to verify/quantify water savings; reduction of applied water; water quality benefits; in-stream flow benefits. Continue using already articulated Quantifiable Objectives to track progress and assess program effectiveness. Proposals submitted under Proposition 50 will be reviewed for scientific merit and feasibility. Monitoring plan and Performance Measures will be required of all applicants for Proposition 50 funding.

Co-Lead agency: DWR, USBR and State Board take the lead for their respective grant programs; ongoing cross-agency coordination.

DWR Funding: Science and Monitoring.

Program Level Monitoring

Evaluate the local and public costs and benefits of the WUE funded Program. Integrate results and findings of project level implementation in an overall and comprehensive analysis to summarize program benefits and achievements regarding CALFED WUE goals for urban and Ag (Targeted Benefits).

Co-Lead agency: Each implementing agency – DWR, USBR and State Board – take the lead for its own grant program; ongoing cross-agency coordination.

- Assurances Package. Continue to work with stakeholders and improve on the Ag Assurances Strategy developed in Year 6 and pursue implementation through and adaptive management process. Lead agency: DWR

Periodically convene the WUE Science Application Advisory Committee to provide advice on conducting science and evaluation tasks. DWR anticipate that there will be meetings of SAAC in year 7 to review the DWR's WUE project funding process and discuss previously WUE-funded project results. DWR will incorporate science review in its PSP process and will continue to monitor the agricultural, urban and water desalination projects results and analyze data.

Lead Agency: DWR with participation by CBDA, SWRCB, NRCS, and USBR

Science and Monitoring Program Funding: \$1.486 million.

Schedule: 2006-2007

Lead Agency: DWR with participation by CBDA, SWRCB, NRCS, and USBR.

Water Measurement

WUE agencies to discuss and develop a plan of action in implementing water measurement tasks consistent with the findings of the Bay-Delta Refocusing Effort. Also continue to work with the Governor's office and the Legislature to enact the legislative components of the Implementation Approach.

Schedule: 2006-07.

Co-Lead Agency: CBDA, DWR, SWRCB, NRCS, and USBR.

Oversight and Coordination/Coordinated Actions

The primary deliverable for Coordinated Actions is the completion of the ROD specified Comprehensive Year 4 WUE Evaluation. The results of this evaluation will be used by policy-makers to determine not only the continued level of funding for future WUE projects but for the future funding of other water management actions (such as surface storage).

Lead Agency: CBDA with participation by DWR, USBR, NRCS, and SWRCB.

Funding: No specific funding identified, overhead cost.

Convene the Water Management Science Board and affiliated work teams to provide independent scientific advice and review.

Lead Agency: CBDA with participation by DWR, SWRCB, NRCS, and USBR.

Continue to convene WUE Stakeholder committee meetings to get input and continue to provide guidance in interpreting the ROD to meet the goals and objectives of the WUE program.

Lead Agency: Implementing agencies

Schedule: Ongoing

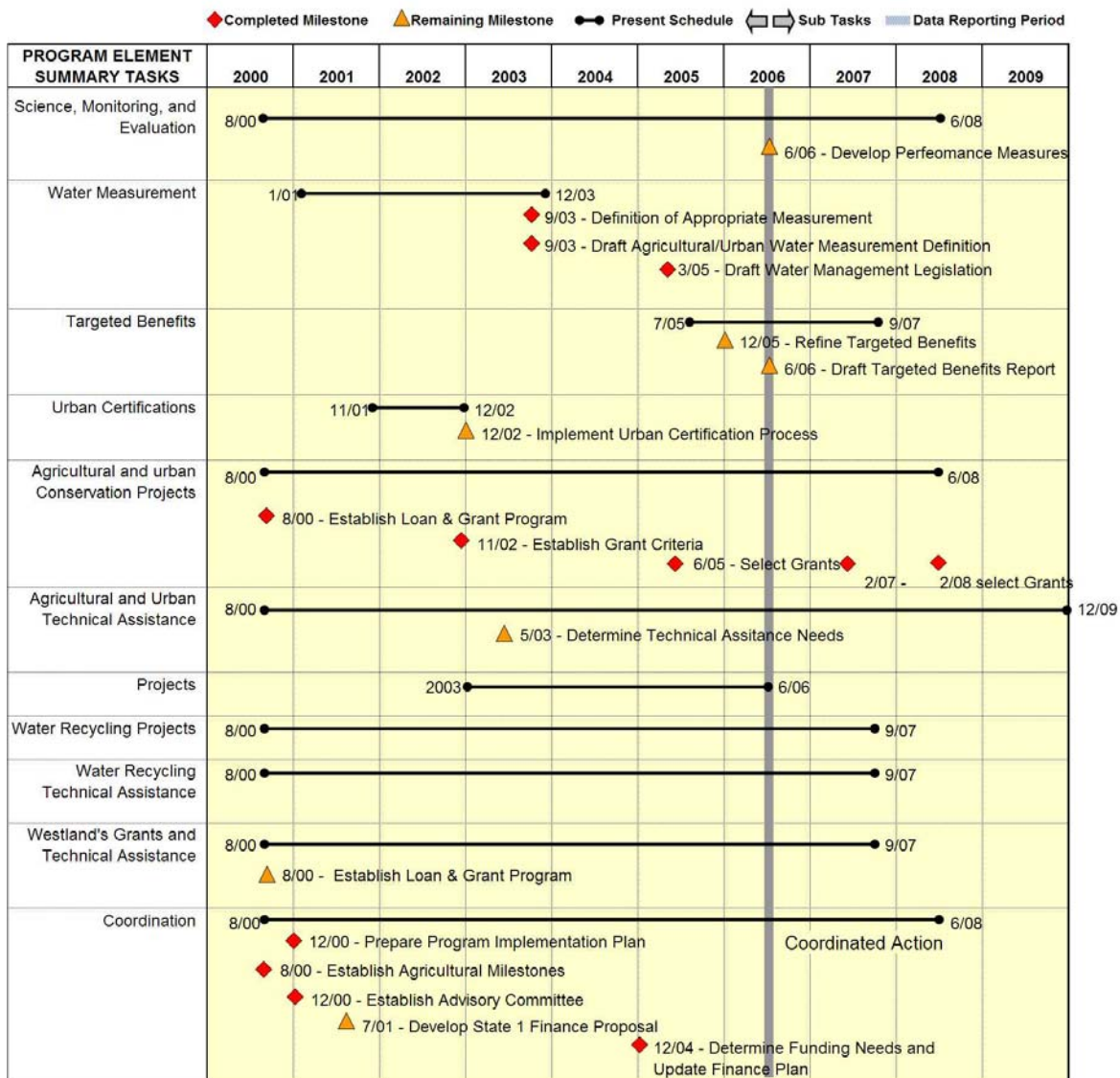
Prepare Elements of Urban Water Conservation Certification and pursue the topic with WUE Stakeholders, CBDA and Implementing agencies to develop the future of this activity.

Co-Lead Agency: CBDA and Implementing agencies

Funding:

Schedule: 2007

Schedule



Budget

Include a section on program budgets for FY 2006/07.
This should follow the format in the current program plans.

Water Use Efficiency (\$ in millions)	Yr 6	Yr 7	Yr 8	Yr 9	Total
State ¹		\$67.17	\$37.71	\$3.17	\$108.04
Federal ²		\$11.93			\$11.93
Local ³		\$88.93	30.14		\$119.07
Water User					
Available Funding Total	N/A	\$168.03	\$67.84	\$3.17	\$239.04

1. State funding includes California Bay-Delta Authority, DWR, and SWRCB.
2. Federal funding assumes President's Budget funding for US Bureau of Reclamation (Reclamation). Federal appropriations beyond Year 7 are unknown. USDA NRCS implements the EQIP program (about \$5m) which is Category B and not included in the above budget.
3. Local funding assumes 50% local cost match for water conservation grants and 75% for recycling grants.